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**From:** Bahadori, Tina [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=7DA7967DCAFB4C5BBC39C666FEE31EC3-BAHADORI, TINA]  
**Sent:** 1/19/2018 4:25:22 PM  
**To:** Sasser, Erika [Sasser.Erika@epa.gov]; Vandenberg, John [Vandenberg.John@epa.gov]; Vasu, Amy [Vasu.Amy@epa.gov]; Axelrad, Daniel [Axelrad.Daniel@epa.gov]; Mazza, Carl [Mazza.Carl@epa.gov]  
**CC:** Ross, Mary [Ross.Mary@epa.gov]; Lavoie, Emma [Lavoie.Emma@epa.gov]; Thayer, Kris [thayer.kris@epa.gov]; Bussard, David [Bussard.David@epa.gov]; Rimer, Kelly [Rimer.Kelly@epa.gov]  
**Subject:** RE: Meeting with ACC on Formaldehyde

Thank you very much. I will make sure you are on the calendar invite. Other names are not required, unless they are going to join separately and need their own calendar invite.

Tina

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**From:** Sasser, Erika  
**Sent:** Friday, January 19, 2018 11:16 AM  
**To:** Bahadori, Tina <Bahadori.Tina@epa.gov>; Vandenberg, John <Vandenberg.John@epa.gov>; Vasu, Amy <Vasu.Amy@epa.gov>; Axelrad, Daniel <Axelrad.Daniel@epa.gov>; Mazza, Carl <Mazza.Carl@epa.gov>  
**Cc:** Ross, Mary <Ross.Mary@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Bussard, David <Bussard.David@epa.gov>; Rimer, Kelly <Rimer.Kelly@epa.gov>  
**Subject:** RE: Meeting with ACC on Formaldehyde

Tina, yes we plan to attend. Kelly Rimer, Amy Vasu and I will join John and others in RTP videoconference room B249. Do you need a list of names, if others in OAR express interest in attending?

Thanks

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**From:** Bahadori, Tina  
**Sent:** Tuesday, January 16, 2018 9:18 AM  
**To:** Vandenberg, John <Vandenberg.John@epa.gov>; Sasser, Erika <Sasser.Erika@epa.gov>; Vasu, Amy <Vasu.Amy@epa.gov>; Axelrad, Daniel <Axelrad.Daniel@epa.gov>; Mazza, Carl <Mazza.Carl@epa.gov>  
**Cc:** Ross, Mary <Ross.Mary@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Bussard, David <Bussard.David@epa.gov>  
**Subject:** RE: Meeting with ACC on Formaldehyde

Thanks John – OAR/OP, please let me know if you WILL be able to attend so that I can let Jennifer know.

Tina

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**From:** Vandenberg, John  
**Sent:** Tuesday, January 16, 2018 7:57 AM  
**To:** Bahadori, Tina <Bahadori.Tina@epa.gov>; Sasser, Erika <Sasser.Erika@epa.gov>; Vasu, Amy <Vasu.Amy@epa.gov>; Axelrad, Daniel <Axelrad.Daniel@epa.gov>; Mazza, Carl <Mazza.Carl@epa.gov>  
**Cc:** Ross, Mary <Ross.Mary@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Bussard, David <Bussard.David@epa.gov>  
**Subject:** RE: Meeting with ACC on Formaldehyde

I have reserved B249 for a video connection to RTP from 2-3 on 1/24 -- OAQPS is welcome to join us for this meeting with ACC.

John

**From:** Bahadori, Tina  
**Sent:** Tuesday, January 16, 2018 6:26 AM  
**To:** Sasser, Erika <Sasser.Erika@epa.gov>; Vasu, Amy <Vasu.Amy@epa.gov>; Axelrad, Daniel <Axelrad.Daniel@epa.gov>; Mazza, Carl <Mazza.Carl@epa.gov>  
**Cc:** Ross, Mary <Ross.Mary@epa.gov>; Lavoie, Emma <Lavoie.Emma@epa.gov>; Thayer, Kris <thayer.kris@epa.gov>; Vandenberg, John <Vandenberg.John@epa.gov>; Bussard, David <Bussard.David@epa.gov>  
**Subject:** RE: Meeting with ACC on Formaldehyde

Good Morning Everyone,

As you see below, ACC is coming in one more time to brief the Agency on their work on formaldehyde.

Ex. 5 - Deliberative Process

**Ex. 5 - Deliberative Process**

Ex. 5 - Deliberative Process Jennifer Orme-Zavaleta, ORD's Principal Deputy (acting AA, at times), asked if OAR and/or OP might be available to join us in this briefing. We can make a video connection available for RTP. If there are others we should invite, please let me know.

Thanks,  
Tina

-----Original Appointment-----

**From:** Orme-Zavaleta, Jennifer  
**Sent:** Monday, December 4, 2017 1:55 PM  
**To:** Orme-Zavaleta, Jennifer; Rodan, Bruce; Yamada, Richard (Yujiro); Fleming, Megan; Christian, Megan; Kuhn, Kevin; Bahadori, Tina  
**Subject:** Meeting with ACC on Formaldehyde  
**When:** Wednesday, January 24, 2018 2:00 PM-3:00 PM (UTC-05:00) Eastern Time (US & Canada).  
**Where:** DCRoomRRB41213/ORD

**From:** White, Kimberly [mailto:Kimberly.White@americanchemistry.com]  
**Sent:** Monday, December 04, 2017 8:22 AM  
**To:** Orme-Zavaleta, Jennifer <Orme-Zavaleta.Jennifer@epa.gov>  
**Subject:** Follow-up

Dear Dr. Orme-Zavaleta,

Thank you for your initial response to my November 21<sup>st</sup> letter. Do you have availability for a 1 hour meeting in Washington, DC sometime during the week of January 22<sup>nd</sup> to discuss further?

Separately, I also wanted to alert you to a recently published article by Mundt et al. titled "Six years after the NRC Review of EPA's Draft IRIS Toxicological Review of Formaldehyde: Regulatory implications of new science in evaluating formaldehyde leukemogenicity". I have appended a copy of the in press version to this email and excerpted the abstract below.

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Regul Toxicol Pharmacol. 2017 Nov 17. pii: S0273-2300(17)30363-X. doi: 10.1016/j.yrtph.2017.11.006. [Epub ahead of print]

**Six years after the NRC Review of EPA's Draft IRIS Toxicological Review of Formaldehyde: Regulatory implications of new science in evaluating formaldehyde leukemogenicity.**

Mundt KA<sup>1</sup>, Gentry PR<sup>2</sup>, Dell LD<sup>2</sup>, Rodricks JV<sup>2</sup>, Boffetta P<sup>3</sup>.

Author information

Abstract

Shortly after the International Agency for Research on Cancer (IARC) determined that formaldehyde causes leukemia, the United States Environmental Protection Agency (EPA) released its Draft IRIS Toxicological Review of Formaldehyde, also concluding that formaldehyde causes leukemia. Peer review of the EPA Draft IRIS Assessment by a National Academy of Science committee noted that "causal determinations are not supported by the narrative provided in the draft" [NRC 2011]. They offered recommendations for improving the IRIS review and identified several important research gaps. Over the six years since the NRC peer review, significant new science has been published. We identify and summarize key NRC recommendations and map them to this new science, including extended analysis of epidemiological studies, updates of earlier occupational cohort studies, toxicological experiments using a sensitive mouse strain, mechanistic studies examining the role of exogenous versus endogenous formaldehyde in bone marrow, and several critical reviews. With few exceptions, new findings are consistently negative, and integration of all available evidence challenges the earlier conclusions that formaldehyde causes leukemia. Given formaldehyde's commercial importance, environmental ubiquity and endogenous production, accurate hazard classification and risk evaluation of whether exposure to formaldehyde from occupational, residential and consumer products causes leukemia are critical.

**KEYWORDS:**

Epidemiology; Evidence integration; Hazard evaluation; Mechanistic studies; Regulatory science; Toxicology

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Kind Regards,

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